

Michael E Cholette

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,080
citations

361045

20
h-index

433756

31
g-index

61
all docs

61
docs citations

61
times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	Soiling of solar collectors – Modelling approaches for airborne dust and its interactions with surfaces. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 2343-2357.	8.2	74
2	Optimal Vehicle Trajectory Planning With Control Constraints and Recursive Implementation for Automated On-Ramp Merging. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 3409-3420.	4.7	72
3	Ant colony algorithm for building energy optimisation problems and comparison with benchmark algorithms. <i>Energy and Buildings</i> , 2017, 154, 404-414.	3.1	60
4	Future energy-optimised buildings – Addressing the impact of climate change on buildings. <i>Energy and Buildings</i> , 2021, 231, 110610.	3.1	59
5	Comparison of the effectiveness of analytical wake models for wind farm with constant and variable hub heights. <i>Energy Conversion and Management</i> , 2016, 124, 189-202.	4.4	57
6	Multi-layer PCM solidification in a finned triplex tube considering natural convection. <i>Applied Thermal Engineering</i> , 2017, 123, 901-916.	3.0	55
7	A state-constrained optimal control based trajectory planning strategy for cooperative freeway mainline facilitating and on-ramp merging maneuvers under congested traffic. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 109, 321-342.	3.9	47
8	Building energy optimisation under uncertainty using ACOMV algorithm. <i>Energy and Buildings</i> , 2018, 167, 322-333.	3.1	43
9	Degradation modeling and condition-based maintenance of boiler heat exchangers using gamma processes. <i>Reliability Engineering and System Safety</i> , 2019, 183, 184-196.	5.1	43
10	Optimal condition-based cleaning of solar power collectors. <i>Solar Energy</i> , 2017, 157, 762-777.	2.9	37
11	Design optimization method for tube and fin latent heat thermal energy storage systems. <i>Energy</i> , 2017, 134, 585-594.	4.5	36
12	Development and experimental validation of a physical model for the soiling of mirrors for CSP industry applications. <i>Solar Energy</i> , 2018, 173, 1287-1305.	2.9	35
13	Extracting failure time data from industrial maintenance records using text mining. <i>Advanced Engineering Informatics</i> , 2017, 33, 388-396.	4.0	34
14	Opportunistic maintenance considering non-homogenous opportunity arrivals and stochastic opportunity durations. <i>Reliability Engineering and System Safety</i> , 2017, 160, 151-161.	5.1	28
15	Optimization of wind farm layout with complex land divisions. <i>Renewable Energy</i> , 2017, 105, 30-40.	4.3	28
16	A multi-sensor approach to remaining useful life estimation for a slurry pump. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 139, 140-151.	2.5	28
17	Effectiveness of optimized control strategy and different hub height turbines on a real wind farm optimization. <i>Renewable Energy</i> , 2018, 126, 819-829.	4.3	26
18	Building energy optimization using surrogate model and active sampling. <i>Journal of Building Performance Simulation</i> , 2020, 13, 760-776.	1.0	25

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19	Optimization of cleaning strategies for heliostat fields in solar tower plants. <i>Solar Energy</i> , 2020, 204, 501-514.	2.9	24
20	A computationally-efficient layout optimization method for real wind farms considering altitude variations. <i>Energy</i> , 2017, 132, 147-159.	4.5	23
21	Comparative study of discretization method and Monte Carlo method for wind farm layout optimization under Weibull distribution. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 180, 148-155.	1.7	23
22	Ecological and safe driving: A model predictive control approach considering spatial and temporal constraints. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 67, 208-222.	3.2	23
23	Degradation modeling and monitoring of machines using operation-specific hidden Markov models. <i>IIE Transactions</i> , 2014, 46, 1107-1123.	2.1	19
24	Using support vector machines for the computationally efficient identification of acceptable design parameters in computer-aided engineering applications. <i>Expert Systems With Applications</i> , 2017, 81, 39-52.	4.4	18
25	A multi-dimension clustering-based method for renewable energy investment planning. <i>Renewable Energy</i> , 2021, 172, 651-666.	4.3	18
26	Combined optimization of continuous wind turbine placement and variable hub height. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 180, 136-147.	1.7	14
27	Optimization of condition-based maintenance considering partial opportunities. <i>Quality and Reliability Engineering International</i> , 2020, 36, 529-546.	1.4	14
28	Monitoring of complex systems of interacting dynamic systems. <i>Applied Intelligence</i> , 2012, 37, 60-79.	3.3	12
29	Modelling the soiling of heliostats: Assessment of the optical efficiency and impact of cleaning operations. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	11
30	Condition Monitoring and Operational Decision Making in Semiconductor Manufacturing. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2013, 26, 454-464.	1.4	10
31	Optimal inspections and maintenance planning for anti-corrosion coating failure on ships using non-homogeneous Poisson Processes. <i>Ocean Engineering</i> , 2021, 238, 109695.	1.9	10
32	A Dual-Mode Model Predictive Control Algorithm Trajectory Tracking in Discrete-Time Nonlinear Dynamic Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	0.9	9
33	Condition-based inspection policies for boiler heat exchangers. <i>European Journal of Operational Research</i> , 2021, 291, 232-243.	3.5	8
34	Sectorial reflectance-based cleaning policy of heliostats for Solar Tower power plants. <i>Renewable Energy</i> , 2020, 166, 176-189.	4.3	7
35	Energy Efficient and Safe Control Strategy for Electric Vehicles Including Driver Preference. <i>IEEE Access</i> , 2021, 9, 11109-11122.	2.6	6
36	Precedent-Free Fault Isolation in a Diesel Engine Exhaust Gas Recirculation System. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012, 134, .	0.9	5

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37	Real-Time Joint Estimation of Traffic States and Parameters Using Cell Transmission Model and Considering Capacity Drop. , 2018, , .		5
38	A daylight-oriented multi-objective optimisation of complex fenestration systems. Building and Environment, 2021, 197, 107828.	3.0	5
39	A heuristic approach for scheduling patient treatment in an emergency department based on bed blocking. International Journal of Industrial Engineering Computations, 2020, , 565-584.	0.4	5
40	Dynamic thermal analysis of an external cylindrical receiver in an object-oriented modelling paradigm. AIP Conference Proceedings, 2022, , .	0.3	5
41	Energy Efficiency and Tracking Performance Evaluation for Dual-Mode Model Predictive Control of HVAC Systems. Journal of Thermal Science and Engineering Applications, 2018, 10, .	0.8	3
42	Automated On-Ramp Merging and Gap Development with Speed Constraints – A State-Constrained Optimal Control Approach. , 2018, , .		3
43	Battery Dispatching for End Users With On-Site Renewables and Peak Demand Charges – An Approximate Dynamic Programming Approach. IEEE Transactions on Control Systems Technology, 2022, 30, 2100-2114.	3.2	3
44	Precedent-Free Fault Isolation in a Diesel Engine EGR Valve System. , 2009, , .		2
45	A quantitative study on the impact of opportunistic maintenance in the presence of time-varying costs. , 2016, , .		2
46	Object-oriented modelling of an external receiver for solar tower application: Dynamic simulation and impact of soiling. AIP Conference Proceedings, 2020, , .	0.3	2
47	Benefit Assessment of New Ecological and Safe driving Algorithm using Naturalistic Driving Data. , 2018, , .		1
48	In-situ reflectivity monitoring of heliostats using calibration cameras. AIP Conference Proceedings, 2019, , .	0.3	1
49	CFStrace: An evaluation method to include complex fenestration systems in the façade design process. Solar Energy, 2021, 217, 253-262.	2.9	1
50	A Data Fusion Approach of Multiple Maintenance Data Sources for Real-World Reliability Modelling. Lecture Notes in Mechanical Engineering, 2016, , 69-77.	0.3	1
51	Potentials of condition based monitoring in semiconductor manufacturing. , 2012, , .		0
52	Model-Predictive Control and Closed-Loop Stability Considerations for Nonlinear Plants Described by Local ARX-Type Models. , 2013, , .		0
53	Predicting Maintenance Requirements for School Assets in Queensland. Lecture Notes in Mechanical Engineering, 2018, , 277-289.	0.3	0
54	A Case Study on the Replacement Policy for a Pan System of Sugar Industry. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
55	STATER: Slit-Based Trajectory Reconstruction for Dense Urban Network With Overlapping Bluetooth Scanning Zones. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8316-8326.	4.7	0
56	Making Optimal and Justifiable Asset Maintenance Decisions. Lecture Notes in Mechanical Engineering, 2015, , 253-263.	0.3	0
57	A Decision Support Framework for Prioritization of Engineering Asset Management Activities Under Uncertainty. Lecture Notes in Mechanical Engineering, 2015, , 49-60.	0.3	0
58	Reliability Modelling for Electricity Transmission Networks Using Maintenance Records. Lecture Notes in Mechanical Engineering, 2016, , 397-406.	0.3	0
59	Bi-objective optimization of sectorial cleaning policy for the solar fields of concentrating solar tower plants. AIP Conference Proceedings, 2022, , .	0.3	0